



## KEYED NOTES:

- (1) INSTALL BALANCING VALVE WITH MINIMUM OF 3 STRAIGHT PIPE DIAMETERS UPSTREAM AND 1 STRAIGHT PIPE DIAMETER DOWNSTREAM.
- (2) MAINTAIN 6" MINIMUM CLEARANCE ABOVE TEST PLUG TO ALLOW GAUGE TO BE INSERTED. DO NOT COVER PLUG WITH INSULATION.
- (3) INSTALL SWING JOINTS AT COIL CONNECTIONS.
- (4) CONNECT BRANCH LINES FROM COIL INTO TOP OR SIDE OF SUPPLY AND RETURN MAINS. CONNECTING INTO BOTTOM OF MAIN IS NOT ACCEPTABLE.
- (5) INSTALL MANUAL AIR VENTS IN SUPPLY AND RETURN COIL BRANCH PIPING AS FOLLOWS:
  - A) IN PIPING HIGH POINT WHEN PIPING IS ABOVE MAIN.
  - B) CLOSE TO COIL WHEN PIPING IS NOT ABOVE MAIN (SIDE CONNECTION).
- (6) INSTALL COIL SO AIR PASSES THROUGH FINS IN PROPER DIRECTION NOTED ON COIL.

## HOT WATER COIL PIPING DETAIL

(VARIABLE FLOW THROUGH COIL, FAIL TO NO HEAT)

SCALE: NONE

### NOTES FOR DESIGNER: (DO NOT INCLUDE ON CONSTRUCTION DRAWINGS)

1. SEE SHEET 10 FOR STACKED COIL PIPING.
2. SEE SHEET 11 FOR DESIGN NOTES.

DRAWING DEVELOPED FOR ML-3/  
ML-4 PROJECTS. FOR ML-1/  
ML-2, ADDITIONAL REQUIREMENTS  
AND QA REVIEWS ARE REQUIRED.  
(REMOVE THIS NOTE WHEN IN-  
SERTED INTO A DRAWING PACK-  
AGE).

1	6-14-03	U	REVISED TO COMPLY WITH DRAFTING MANUAL. ADDED STRAINER & KEYED NOTE 6. DWS NO. WAS ST6121.	RP	AB	JM	GG	TO
NO	DATE	CLASS	DESCRIPTION	DWN	DSGN	CHKD	SUB	APP
<b>FACILITY &amp; WASTE OPERATIONS DESIGN ENGINEERING CONSTRUCTION SERVICES</b>				<b>ENGINEERING STANDARDS MANUAL</b>				
HOT WATER COIL PIPING DETAIL VARIABLE FLOW, FAIL TO NO HEAT				DRAWN: R. PEARSON DESIGN: A. BRIDGE CHECKED: G. GREWAL DATE: 6-28-99				
BLDG X SUBMITTED: DISCIPLINE: POC: GURINDER GREWAL				TA-X APPROVED FOR RELEASE: STANDARDS MANAGER: TOBIN ORUCH				
Los Alamos National Laboratory PO Box 1663 Los Alamos, New Mexico 87545				SHEET: 4 OF 11				
CLASSIFICATION: U PROJECT ID:				REVIEWER: LARRY BAYS DRAWING NO:				
CHAPTER 6				ST-D30GEN-2				
				REV: 1				